

Name: _____ Date: _____ Pd: _____



Mixture HW #2

Ellery is an engineer, working with copper alloy. She has one hundred kilograms of 25% copper alloy and one hundred kilograms of 50% copper alloy. How many kilograms of each alloy does she need to make 40 kilograms of 45% copper alloy?

a. Predict - Which alloy will she need more of?

b. Define variables that make sense for the situation.

c. Write AND SOLVE a system of linear equations. Show all work.

d. Check your answers via SUBSTITUTION and REALITY.

e. Write your final answers with LABELS.

